Dual-Bed Deionizers

Large Sized Deionization Applications

DM-6100
SERIES

Engineered for large-sized deionization (DI) applications, these dependable units feature the same precision electronics and performance characteristics as their large-scale counterparts, all in a smaller, top mounted package. Applications cover the full spectrum of industrial, commercial, medical and agricultural uses.

Pure Aqua supplies a full line of standard and fully customizable dual bed deionizer systems, all of which are engineered using advanced 3D computer modeling and process design software for accurate and customized solutions.

Applications

- Paints
- Chemicals
- Cosmetics
- Electronics
- Textiles
- Plating
- Ice Plants
- Printing
- Boiler feed
- Film processing
- Electrodeposition
- Metalworking lubricants
- Washes - cars to aircrafts
- Humidification control
- Testing and materials
- Research and development
- Glassware rinse
- Hospitals/Medical
- Horticulture/Greenhouse
- Food/Beverage processing

Standard Features

- Constant monitoring of water quality
- No untreated by-pass water
- Compact, non-corrosive components
- Fiberglass tanks for corrosion resistance
- Auto regeneration on preset water quality limit
- Solid-state reliability for trouble-free service
- Automatic shut down during power failure
- Programmable purge prior to regeneration
- 12 volt operation (120V/1pH/60Hz transformer incl.)
- Convenient, modular construction
- Easy, economical installation
- Optional recirculation pumps
- Parallel or Series regeneration

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System Features

- Custom programmable for automatic precision and simplicity.
- Delivers duplex DI water more economically than any other deionizer.
- The most advanced DI control package available.
- No other DI controls offer so much performance at such a low price.
- The digital-type meter displays both water quality and regeneration time remaining.
- Tank polisher can be accommodated under the single control to pick up sodium or silica leakage, allowing you to easily attain higher purity water at less expense.
- Single set of printed circuit boards control both simultaneous and sequential regeneration.
- All programming features are easily accessible on the front panel.
- Indicator lights show at a glance which phase of the regeneration cycle the system is in.
- Direct eduction of chemicals through multiport valves eliminates additional valves.
- Automatic pre-rinse prior to regeneration prevents false regeneration and preserves chemicals.
- Monitored final rinse rids the system of residual chemicals before the deionizer returns to service.
- Test ports allow sampling of decationized and final DI water to check system performance.
- Modular construction reduces downtime and simplifies troubleshooting and service.
- Rugged NEMA 12 electrical enclosures, standard on all controls, meet or exceed NEMA showering arc (ICS 2-230), surge withstand (IEEE 587) and electrostatic discharge (MIL-STD-88380).
- Automatic shutoff during power failure stops resins from being exhausted past quality endpoint.
- NOVRAM backup saves all data during a power failure, then returns the display to the last data point when power is restored. No batteries are required.
- A low level sensor can be easily wired into the control to warn of low chemical volumes.
- Provisions for a remote control panel and auxiliary "START REGENERATION" source allow regeneration to be initiated and controlled from a remote location.
- Level controlled shutoff can be utilized with the addition of a float switch in the storage tank.
- Relays and fuses on the power circuit allow for the operation of recirculation and supply pumps.

Model #	Nominal Capacity (Grains)	Service Flow (GPM)		Pipe Size	Mineral Tank Size	Resin Quantity (ft^3)		Shipping Weight (lbs)
		Cont.	Peak			Cation	Anion	
DM24-Q-FRP	200,000	5	35	2"	24"x72"	10	10	2100
DM30-Q-FRP	300,000	7	50	2"	30"x72"	15	15	2900
DM36-Q-FRP	400,000	9	70	2"	36"x72"	20	20	4800
DM42-Q-FRP	600,000	12	100	3"	42"x72"	30	30	6600
DM48-Q-FRP	800,000	15	135	3"	48"x72"	40	40	8500

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